



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, Andhra Pradesh, INDIA.

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.

Accredited by NAAC, NBA Tier-1 for CSE, IT, ECE, EEE & ME and “CPE” status by UGC.

### Research & Development Cell

#### Details of R & D Accomplishments during the A.Y.: 2021-22

i.	No. of SCI papers	: 38
ii.	No. of ESCI papers	: 17
	<b>Total Papers in Web of Science (WoS)</b>	<b>: 55</b>
iii.	No. of Papers in Scopus indexed Journals	: 31
iv.	No. of Papers in Conf. Proceedings indexed by Scopus	: 85
	<b>Total Papers in Scopus</b>	<b>:116</b>
	<b>Grand Total of Papers in Indexed Journals</b>	<b>: 171</b>
v.	No. of Open Access Journals	:64
vi.	No. of Papers in General Conf. Proceedings	: 32
vii.	No. of Patents Published	: 75
viii.	No. of Books/Chapters published	: 25
ix.	No. of Grants Received	:
x.	No. of Supervisors and Scholars	:35/47
xi.	No. of Ph.D. Scholars awarded Ph.D.	: 03
xii.	No. of Faculty Secured Ph.D.	: 07

#### Research Publications for the A.Y.: 2021-22

		Details of Paper Publications									
SI.	Dept.	WoS		Scopus		Total	Open Access	Gen. Conf. Proc.	Grand Total	Patents	Book/Chapter
		SCI	ESCI	Jour.	Proc.						
1.	AE	01	--	--	01	02	--	--	02	--	--
2.	CE	--	--	--	09	09	02	--	11	--	--
3.	CSE	07	02	06	30	45	06	06	57	14	05
4.	ECE	04	03	03	15	25	13	12	50	06	01
5.	EEE	13	--	06	08	27	19	04	50	09	03
6.	EIE	01	02	--	--	03	04	--	07	--	--
7.	IT	--	--	08	13	21	04	06	31	06	09
8.	ME	08	10	05	06	29	02	03	34	40	01
9.	FED	04	--	03	03	10	09	--	19	--	--
10	MBA	--	--	--	--	--	05	--	05	--	06
	<b>Total</b>	<b>38</b>	<b>17</b>	<b>31</b>	<b>85</b>	<b>171</b>	<b>64</b>	<b>32</b>	<b>235</b>	<b>75</b>	<b>25</b>

## Papers inWoS -55

SCI: AE-1, CE-0, CSE-7, ECE-4, EEE-13, EIE-1, ME-8, IT-0, FED-4, MBA-0, Total-38

ESCI: AE-0, CE-0, CSE-2, ECE-3, EEE-0, EIE-2, ME-10, IT-0, FED-0, MBA-0, Total-17

### Department of Aerospace Engineering-01+00

1. Effect of Eccentricity on Co-flow Jet Characteristics, **Dakshina Murthy Inturi, Lovaraju Pinnam**, Srinivasa Rao T, Ramachandra Raju Vegesna, Iranian Journal of Science and Technology, Transactions of Mechanical Engineering, (July 2021), 2364-1835.

### Department of Civil Engineering-Nil

### Department of Computer Science Engineering-07+02

2. **Ant Cat Swarm Optimization-Enabled Deep Recurrent Neural Network for Big Data Classification Based on Map Reduce Framework.** Satyala Narayana, Suresh Babu C, **Mekala Srinivasa Rao**, KalyanapuSrinivas, The Computer Journal, Vol.64, issue 10, 2021., <https://doi.org/10.1093/comjnl/bxab135>.
3. **Secure Exchange and effectual verification of educational academic records using Hyperledger fabric blockchain system,** E.Suresh Babu, **M.Srinivasa Rao**, Satluri Naganjaneyulu, M.Srinivasa seha Sai, Rajendra Kumar.Ganiya,International Journal of Ad Hoc and Ubiquitous Computing,Vol.40.1/2/3/2022,JUN-2022, pp-194-213. <https://www.inderscienceonline.com/doi/abs/10.1504/IJAHUC.2022.123540>
4. **Efficiency Evaluation of HRF mechanism on EDoS attacks in Cloud Computing Services,** Rajendra Kumar G, **Veeraiah Duggineni**, Suneetha Bulla, Nageswara Rao Jarapala, J. Sunny Deol .G.,International Journal of Ad Hoc and Ubiquitous Computing, DOI: 10.1504/IJAHUC.2022.10041784, 40 (1-3), pp. 225-238,
5. **Energetic and Valuable Path Compendium Routing Using Frustration Free Communication Dimension Extension Algorithm in MANET,**D. **Veeraiah**,G. Joel Sunny Deol, Rajendra Kumar Ganiya, J. Nageswara Rao, Suneetha Bulla, and Assefa Alene,Wireless Communications and Mobile Computing,Article ID 3685419 , Mar-2022 . <https://doi.org/10.1155/2022/3685419>
6. **Regression Based Price Prediction of Staple Food Materials Using Multivariate Models,** K. Venkateswara Rao, D. Srilatha, D. Jagan Mohan Reddy, **Venkata Subbaiah Desanamukula**, Mandefro Legesse Kejela, Scientific Programming, vol. 2022, Article, ID 4572064, 7 pages, 2022. <https://doi.org/10.1155/2022/4572064>
7. **Quantum inspired meta-heuristic approach for optimization of genetic algorithm,** Vithya Ganesan, M.Sobhanaba, G.Anuradha, **O. Rama Devi**, Computers & Electrical Engineering,2021.ISSN:0045-7906, 94, art. no. 107356.<https://www.sciencedirect.com/science/article/pii/S0045790621003268>,
8. **Automated Registration of Multiangle SAR Images Using Artificial Intelligence,** Pooja Chopra, **Vijay Suresh Gollamandala**, Ahmed Najat Ahmed, S. B. G. Tilak Babu, Chamandeep Kaur, N. Achyutha Prasad, Stephen Jeswinde Nuagah,Mobile Information Systems,ID 3685419, May-2022. <https://www.hindawi.com/journals/misy/2022/4545139/>.
9. **Verifiable Authentication and Issuance of Academic Certificates Using Permissioned Blockchain Network,** Erukala Suresh Babu, B. K. N. Srinivasarao, IlaiahKavati, **Mekala Srinivasa Rao**, International Journal of Information Security and Privacy(IJISP), Vol.16, Issue 1,2021. ISSN: 1930-1650,<https://www.igi-global.com/article/verifiable-authentication-and-issuance-of-academic-certificates-using-permissioned-blockchain-network/284052> (**ESCI**)
10. **Permissioned Blockchain-based Collaborative Intrusion Detection System to Secure Internet of Things Against DDoS Attacks,** Erukala Suresh Babu, BKN Srinivasa Rao, M.

**Srinivasa Rao**, Ilaiah Kavati, Ramalingaswamy Cheruku, Journal of Information Assurance and Security, ISSN 1554-1010 Volume 16, Issue 5 (2021) pp. 178-191.

<http://www.mirlabs.org/jias/secured/Volume16-Issue5/Paper19.pdf>(ESCI)

#### **Department of Electronics and Communication Engineering-04+03**

11. **An efficient low complexity compression based optimal homomorphic encryption for secure fiber optic communication**, D.Venu, A.V.R. Mayuri, S. Neelakandan, **G.L.N. Murthy**, N. Arulkumar, Nilesh Shelke, Optik, 252,(February 2022), 168545, 0030-4026 (Print), 1618-1336 (online).
12. **A Qualitative Review on Tunnel Field Effect Transistor-Operation, Advances and Applications**, Sadhu Satya Sravani, B.Balaji, K. Srinivasa Rao, **A. Narendrababu**, M. Aditya, K. Girja Sravani, *Silicon*, (2022) <https://doi.org/10.1007/s12633-022-01660-4>
13. **An Experimental Performance on Solar Photovoltaic Thermal Collector with Nanofluids for Sustainable Development**, **Srinivasulu Gundala**, M. Mahaboob Basha, V. Madhurima, N. Praveena, S. Venkatesh Kumar, Journal of Nanomaterials, 2021,(October 2021),6946540,1687-4110(Print), 1687-4129 (Online).
14. **Study of statistical estimated parameters using ERA5 reanalysis data over khulna region during monsoon season**, Ravindranadh Koutavarapu, N. Umakanth, **T. Satyanarayana**, M. Seshu Kumar, M.C. Rao, Dong-Yeon Lee, Jaesool Shim, Acta Geophysica, 69(5),(August 2021), 1963-1978, 18956572 (print), 18957455 (online).
15. **Design of low power SRAM- based ubiquitous sensor for wireless body area networks**, Neeraj, K., Mahaboob Basha, M. and **Gundala Srinivasulu**, *International Journal of Pervasive Computing and Communications*, 17(5), (December 2021), 611-621,1742-7371 (Print), 1742-738X (online).(ESCI)
16. **Studies on Reliability of polymer thick film resistors by using pulse voltage trimming method(PVTM)**, **Poornaiah Billa**, Y. Srinivasa Rao, Journal of Active and Passive Electronic Devices,16(3), (May 2022),1555-0281 (print), 1555-029X (online). (ESCI)
17. **Level-up/Level-Down Voltage Level Shifter for Nano-Scale Applications**, **Srinivasulu Gundala**, M. Mahaboob Basha, S.Vijaya Kumar, Journal of Engineering Science and Technology,17(1),(January 2022),745-759, 1823-4690 (Print). (ESCI)

#### **Department of Electrical and Electronics Engineering-13+00**

18. **“Modified SRFPLL harmonic support island detection in integrated electric grid”**, **K. Harinadha Reddy**, Electrical Engineering, 104,1305–1315 (2022). ISSN: 0948-7921<https://doi.org/10.1007/s00202-021-01384-5>.(SCI)
19. **“Variable converter Pulse Island test in integrated distributed generation of electrical energy system”**, **K. Harinadha Reddy**, International Transactions on Electrical Energy Systems, Vol.31, No.7 ISSN: 2050-7038, July, 2021. <https://doi.org/10.1002/2050-7038.12920>.(SCI)
20. **“Machine learning soft computingfuzzy set to identify ubiquitous integrated network state at different AM operations”**, **K. Harinadha Reddy**, International Journal of Ad Hoc and ubiquitous Computing, Vol.38, No. 4, Page 219-230 ISSN: 1743-8233. Doi: 10.1504/IJAHUC.2021.119852.(SCI)
21. **“Hybrid ROCOF Relay for Islanding Detection”**, **K. Harinadha Reddy**, Journal of Electrical Engineering & Technology, Vol.17, No.0 Page 51-60, ISSN: 1975-0102. <https://link.springer.com/article/10.1007/s42835-021-00856-9>, Jan-22(SCI)
22. **“Maximizing energy tracking in photovoltaic grid-connected system through modified tunicate swarm algorithm–control on environmental effect of irradiance conditions”**, **K. Harinadha Reddy**, Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Vol. 44, Issue No. 1, Pages: 1620-1639, ISSN: 1556-7036. March 2022. <https://www.tandfonline.com/doi/full/10.1080/15567036.2022.2056270>.(SCI)

23. "Soft computing fuzzy set through knn - ML to identify islanding state of integrated electrical grid at different operational events", K. Harinadha Reddy, International Journal of Electrical Power and Energy Systems, ISSN: 0142-0615, Volume 136, Issue: March 2022, 107615, March-2022, <https://doi.org/10.1016/j.ijepes.2021.107615>(SCI)
24. "Optimization of high voltage electrodes for 765 kv bus post insulators,M. Raja Nayak, G. Radhika, B. Devulal, P. Deepak Reddy, G. Suresh, Sustainable Energy Technologies and Assessments-ELSEVIER, 47, Page 101529, August, 2021, ISSN: 2213-1388, <https://doi.org/10.1016/j.seta.2021.101529>. (SCI)
25. "Enhancing Global Maximum Power Point of Solar Photovoltaic Strings under Partial Shading Conditions Using Chimp Optimization Algorithm", Timmidi Nagadurga, Pasumarthi Venkata Ramana Lakshmi Narasimham, V. S. Vakula, Energies, Vol.14, No.14 Page 4086, ISSN:1996-1073. July, 2021. <https://doi.org/10.3390/en14144086>.(SCI)
26. "Global Maximum Power Point Tracking of Solar Photovoltaic Strings under Partial Shading Conditions Using Cat Swarm Optimization Technique",Timmidi Nagadurga, Pasumarthi Venkata Ramana Lakshmi Narasimham, V. S. Vakula, Vol.13, No. 19 Page 11106 ISSN: 2071-1050, October, 2021. <https://doi.org/10.3390/su131911106>.(SCI)
27. "Gray wolf optimization-based optimal grid connected solar photovoltaic system with enhanced power quality features", T.Nagadurga, P.V.R.L Narasimham, V.S. Vakula Ramesh Devarapalli, Concurrency and Computation: Practice and Experience (WILEY), Available in Online, ISSN: 1532-0634, November 2021, <https://doi.org/10.1002/cpe.6696>. (SCI)
28. "Evolution of Estimation in Software Development using deep Learning-Modified Neural Network"N.Sreekanth, J.Rama Devi, Amog Shukla, D.K.Mohanty, A.Srinivas, G.Nageswara Rao, Afaque Alam, Ankur Guptha, Applied Nanoscience, Available Online, ISSN NO: 2190-5517. Feb-2022, <https://doi.org/10.1007/s13204-021-02204-9>.(SCI)
29. "Intelligent Wearable Devices Enabled Automatic Vehicle Detection and Tracking System with Video-Enabled UAV Networks Using Deep Convolutional Neural Network and IoT Surveillance", A. R JayaSudha, Pankaj Dadheech , K. Ramalingeswara Prasad, S. Hemalatha, Meghna Sharma, Sajjad Shaukat Jamal, and Daniel Krah, Journal of Healthcare Engineering, ISSN NO: 2040-2295, Vol. 2022, Article ID 2592365, 14 pages, March 2022.<https://doi.org/10.1155/2022/2592365>(SCI)
30. "Machine Learning Enabled Techniques for Protecting Wireless Sensor Networks by Estimating Attack Prevalence and Device Deployment Strategy for 5G Networks", Parmod Kumar, Anupam Baliyan, K. Ramalingeswara Prasad, N. Sreekanth,Parag Jawarkar, Vandana Roy, and Enoch Tetteh Amoatey, Wireless Communications and Mobile Computing, ISSN: 1530-8669, Volume 2022, Article ID 5713092, Pages 15. March 2022. <https://doi.org/10.1155/2022/5713092>(SCI)

**Department of Electronics and Instrumentation Engineering-01+02**

31. "Power and Delay Efficient Haar Wavelet Transform for Image Processing Application" Gundugonti Kishore Kumar, Mahammad Firose Shaik, Vikram Kulkarni and **Rambabu Busi**(Feb, 2022) published in Journal of Circuits, Systems and Computers, USA, vol. 31, No. 08, World Scientific Publishing Company DOI: 10.1142/S0218126622200018 23<sup>rd</sup> , Feb 2022. ISSN: 0218-1266.
32. "The Influence of High Voltage Impulses on PVC-Graphite Thick Film Resistors" **Busi Rambabu**, T. Satyanarayana, G. Srinivasulu and Y. Srinivasa Rao (**March ,2022**) published in The Journal of Active and Passive Electronic Devices (JAPED) USA, Vol.12. Issue. 1-2, P.P. 73-87, 2022. ISSN: 1555-0281 (print) 1555-029X (online)(**ESCI**).
33. "Design of Near-threshold CMOS and TG Based Adder Circuit for Computing Applications" M. Mahaboob Basha, **Rambabu Busi**, **Srinivasulu Gundala** and Pandya Vyomal Naishadhkumar(March,2022) published in The Journal of Active and Passive Electronic Devices

**Department of Information Technology-Nil**

**Department of Mechanical Engineering-08+10**

34. Development of empirical correlations for density and viscosity estimation of ternary biodiesel blends, M.A.Mujtaba, M.A.Kalam, H.H.Masjuki, LuqmanRazzaq, HarisMehmood Khan, Manzoore ElahiM. Soudagar, M.Gul, Waqar Ahmed, **V. DhanaRaju**, Ravinder Kumar, Hwai Chyuan Ong, Renewable Energy, doi.org/10.1016/j.renene.2021.07.121, Nov- 2021, ISSN: 0960-1481**(SCI)**
35. Computational comparison and experimental performance analysis on heat pipes using concentrating solar parabolic trough collector, **Ravindra Kumar Pasupuleti**, Nelakuditi N Babu, **K. Lakshmi Prasad**, ProclMechE Part A: J Power and Energy, DOI: 10.1177/09576509211070118, Feb: 2022, ISSN: 0957-6509. **(SCIE)**
36. Analysis of particle size diameter (PSD), mass fraction burnt (MFB) and particulate number (PN) emissions in a diesel engine powered by diesel/biodiesel/n-amyl alcohol blends, Harish Venu, IbhamVeza, LokeshSelvam, PrabhuAppavu, **V. Dhana Raju**, LingesanSubramani, Jayashri N. Nair, Energy, DoI:10.1016/j.energy.2022.123806, March-2022, ISSN: 0360-5443.**(SCI)**
37. Evaluation of performance, emissions and combustion attributes of CI engine using palmyra biodiesel blend with distinct compression ratios, EGR rates and nano-particles, **Perumalla Vijaya Kumar**, B.Ashok, M. Senthilkumar, R. Vignesh, J. Pradeep Bhasker, A. Naresh Kumar, FUEL, doi.org/10.1016/j.fuel.2022.124092, April-2022, ISSN: 0016-2361.**(SCI)**
38. Mechanical Behaviour and Thermal Properties of Pine Apple Leaf Fiber Reinforced Vinyl Ester Composites, Mohamad Reda A. Refaai, U. Tamilarasan, **K. Dilip Kumar**, M. Karthe , C. Anbu, and Simon Yishak, Advances in Polymer Technology, Doi.org/10.1155/2022/4386650, April 2022, ISSN: 1098-2329**(SCIE)**
39. Optimization and Tribological Properties of Hybridized Palm Kernel Shell Ash and Nano Boron Nitride Reinforced Aluminium Matrix Composites , M. Lokeshwari,1P. Vidya Sagar,2K. **Dilip Kumar**, 3D. Thirupathy,4Ram Subbiah,5P. Ganeshan,6A. H. Seikh,7S. M. A. K. Mohammed,8and **David Christopher**, Journal of Nanomaterials, 1687-4110 / 1687-4129, <https://doi.org/10.1155/2022/8479012>**(SCIE)**
40. Experimental assessment of diverse diesel engine characteristics fueled with an oxygenated fuel added lemon peel biodiesel blends, **V.Dhana Raju**, ManzooreElahi, M.Soudagari, Harish Venu, JayashriN Nair, **M.B.S.Sreekar Reddy**, **J.Subba Reddy**, T.Srinivasa Rao, T.M.Yunus Khan, Khadiga Ahmed Ismail, Ashraf Elfasakhany, Fuel, doi.org/10.1016/j.fuel.2022.124529, May-2022, ISSN: 0016-2361.**(SCI)**
41. Mechanical Properties of Arecanut and GFR Hybrid Polypropylene Composites, Yarrapragada K. S. S. Rao, Ayaz Ahmad, **Sudheer Kumar Battula**, Reem Mohammed Alharbi,Neveen Abdel-Raouf,IbraheemBorie M. Ibraheem, EssamNagehSholkamy, B. M. Bala, I. Jenish, Advances in Polymer Technology, doi.org/10.1155/2022/9633829, May 2022, ISSN: **0730-6679. (SCI)**
42. Study on the effect of machining characteristics of B4C powder mixed EDM of inconel X-750 alloy, Shaik Khadar Basha, M.V.Jagannadha Raju, **Murahari Kolli**, Advances in Materials and Processing Technologies, Sep-2021, doi.org/10.1080/2374068X.2021.1970984, 2374-068X (ISSN)**(ESCI)**
43. Computational Analysis of Conventional and Helical Finned Shell and Tube Heat Exchanger Using ANSYS-CFD, **Ravindra Kumar Pasupuleti**,ManindraBedhapudi, **Subba Reddy Jonnala**,**Appa Rao Kandimalla**, International Journal of Heat and Technology, Dec- 2021, doi.org/10.18280/ijht.390608, ISSN: 0392-8764.**(ESCI)**
44. An Experimental Investigation on emission characteristics and vibration analysis of a diesel engine, M.BalaChennaiah, **K Dilip Kumar**, G DilliBabu, Srinivasa Rao Tanneru, **B Kamala Priya**, Advances in Materials and Processing Technologies, Jan 2022, doi.org/10.1080/2374068X.2022.2033002, ISSN: 2374-068X**(ESCI)**

45. Dynamic mechanical properties of magnetohelical polyurethane elastomer in comprasion to existing anivibration rubber, **Batulla Sudheer Kumar**, P.Rama Murthy Raju, Ch. Ratnam, *Advances in Materials and Processing Technologies*, Feb 2022, doi.org/10.1080/2374068X.2022.2036449, ISSN: 2374-068X.(**ESCI**)
46. RSM-TOPSIS multi optimization of EDM factors for rotary stir casting hybrid (Al7075/B4C/Gr) composites, Devaraju Aruri, **Murahari Kolli**, Satyanarayana Kosaraju, G. Sai Kumar, *International Journal on Interactive Design and Manufacturing*, doi.org. 10.1007/s12008-022-00893-2, May 2022, ISSN: 1955-2513.(**ESCI**)
47. Study on machinability of Ti6Al4V with coated inserts–cutting force, surface finish and material removal rate prediction using ANN, SatyanarayanaKosaraju, DevarajuAruri **MurahariKolli**, G. Sai Kumar, Phaneendrababu Bobba, *International Journal on Interactive Design and Manufacturing*, doi.org. 10.1007/s12008-022-00874-5, May 2022, ISSN: 1955-2513.(**ESCI**)
48. Influence of grain refiner, modifier and grapheme on the Dry sliding Wear of Hypereutectic Al-Si Alloys, C.Sumalatha, **P.V.ChndraSekhar Rao**, V.V.Subba Rao, M.S.K.Deepak, *Metallography Microstructure and Analysis* , May 2022, dio.org. 10.1007/s13632-022-00849-8, ISSN: 2192-9270. (**ESCI**)
49. Effectiveness of Shannon Entropy Weight Method on Wear Behaviour of Polyester/Carbon Fibre Composites Using GRA, Naga Venkata Saira, Yellapragada Sameer Kumar, DevarakondaKondala Rao, Dasari Naga Sai Rama Krishna Thati, **Jaya Sai AbhayaVeeranjaneyaVara Prasad Alapati**, *Annales de Chimie - Science des Matériaux*, 46(1): 9-17, March 2022, ISSN: 0151-9107.(**ESCI**)
50. Investigation on mechanical and tribological properties of AA6061/ Gr composites for solar header pipes, R Ranjith, V P Pradeep, B R Senthil Kumar, K Somasundaram, **K Lakshmi Prasad**, *Journal name: Engineering Research Express*, 4, 025018, 1-15, May 2022, ISSN: 2631-8695.(**ESCI**)
51. Investigation on material removal rate and taper angle in abrasive aqua jet machining of Al 7075/SiC/Gr composites using RSM approach, **Murahari Kolli**, Ravi Prakash Babu, Sai Naresh dasari, Devaraju Aruri Satyanarayana Kosaraju, *International Journal on Interactive Design and Manufacturing*, Doi: 10.1007/s12008-022-00898-x, June 2022, ISSN: 1955-2513.(**ESCI**)

**Freshmen Engineering Department-04+00**

52. “**The influence of Cu<sup>2+</sup> ions on the ionic, electronic conductivity and optical characteristics of Li<sub>2</sub>O-SrO-B<sub>2</sub>O<sub>3</sub> system**”, **S. Yusub**, A. Ramesh Babu, V. Aruna, N. Sree Ram, P.M. Vinaya Teja, Y. Chaitanya, *Journal of Non-Crystalline Solids*, 572(1), 14<sup>th</sup> October 2021, 1-10, ISSN: 0022-3093.(**SCI**)
53. **Bioconvective magnetized oldroyd-B nanofluid flow in the presence of Joule heating with gyrotactic microorganisms, Waves in Random and Complex Media**, K. Gangadhar, **K. Bhanu Lakshmi**, T. Kannan & Ali J. Chamkha, *Waves in Random and Complex Media* (2022), 21 Mar 2022,1-25, 1745-5049. (**SCIE**)
54. **Step-etched U-bent silica fiber optic probes – Design and optimum geometry for refractive index sensing**, Allwyn S. Rajamani, Hariharan Manoharan, Christina Grace Danny, **P.V.N. Kishore**, V.V. R. Sai, *Sensors and Actuators A: Physical*, 342(2022), 113615, 13th May-2022,pp:1-10, 0924-4247.(**SCI**)
55. **Thermal energy transport of radioactive nanofluid flow submerged with microorganisms with zero mass flux condition**, Kotha Gangadhar, **K. Bhanu Lakshmi**, Shreen El-Sapa, M. Venkata Subba Rao & Ali J. Chamkha, *Waves in Random and Complex Media*, 12th May-2022, pp:1-24, 1745-5049.(**SCIE**)

**Management of Business Administration Department-00**

## **Papers published in Scopus indexed Journals-31**

AE-0, CE-0, CSE-6, ECE-3, EEE-6, EIE-0, IT-8, ME-05, FED-3, MBA-0, **Total-31**

### **Department of Aerospace Engineering-Nil**

### **Department of Civil Engineering-Nil**

### **Department of Computer Science Engineering-06**

1. **Change detection of pulmonary embolism using isomeric cluster and computer vision, Mekala Srinivasa Rao**, Sagenela Vijaya Kumar , Rambabu Pemula, Anil Kumar Prathipati, IAES International Journal of Artificial Intelligence, Vol. 11, No. 2, June 2022, pp. 787~798 ISSN: 2252-8938.  
<https://ijai.iaescore.com/index.php/IJAI/article/view/21498>
2. **Determination of Project Variables Using Fuzzy Decision Tree For Effort Estimations**, Dr. G. Lalitha Kumari, Mrs. Y. Surekha, **Dr. M. Sitha Ram** , Mr. N. Ramesh Babu, Dr. K. Koteswara Rao, Journal of Theoretical and Applied Information Technology, 1992-4625, <http://www.jatit.org/volumes/onehundred10.php>
3. **Enhancement of Energy Efficiency and Network Lifetime Using Modified MPCT Algorithm in Wireless Sensor Networks**, J. Nageswara Rao, Journal of Interconnection Networks, Jan-2022, 1793-6713  
<https://www.worldscientific.com/doi/abs/10.1142/S0219265921440126>
4. **Privacy Preserving with Modified Grey Wolf Optimization Over Big Data Using Optimal K Anonymization Approach**, B. Siva rama krishna, Journal of Interconnection Networks, Feb-2022 <https://www.worldscientific.com/doi/10.1142/S0219265921410395>
5. **A Novel hybrid machine learning- based frequent item extraction for transactional database**, D. Srinivasa Rao, International Journal of Modelling, Simulation and Scientific Computing, Feb 2022.  
<https://www.worldscientific.com/doi/abs/10.1142/S1793962323410064>
6. **HCUGAN: Hybrid Cyclic UNET GAN for Generating Augmented Synthetic Images of Chest X-Ray Images for Multi Classification of Lung Diseases**, Swathi Buragadda, Kodali Sandhya Rani , Sandhya Venu Vasantha, M. Kalyan Chakravarthi "International Journal of Engineering Trends and Technology , Volume-70, Issue-2, 229-238, ISSN: 2231 - 5381, Feb-2022.  
<https://ijettjournal.org/archive/ijett-v70i2p227>

### **Department of Electronics and Communication Engineering-03**

7. **Design and Performance Analysis of buffer inserted onchip global nano interconnects** in VDM technologies, C. Venkataiah, N. Ramanjaneyulu, Y. Mallikarjuna Rao, V.N.V. Satya rakash, **M.K. Lingamurthy**, N. Sreenivasa Rao, Nanotechnology for Environmental Engineering, (May 2022), 2365-6379 (Print).
8. **Design of Energy and EDP Efficient 1-bit full subtractor based divider circuits for computing systems in** International Journal of System of Systems Engineering, M. Mahaboob Basha, **Srinivasulu Gundala**, Sibghatullah I. Khan 11(3-4), (March 2022), 257-267, 1748-0671(Print), 1748-068x (online).
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